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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Rothberg *et al.*
SERIAL NO.: 09/614,505 EXAMINER: Janell Taylor Cleveland
FILING DATE: July 11, 2000 ART UNIT: 1655
FOR: Method for Identifying a Biomolecule

Box RCE
Commissioner for Patents
Washington, D.C. 20231

AMENDMENT AND RESPONSE

Applicants submit herewith in the above-identified patent application, a Request for Continued Examination under 37 C.F.R. § 1.114 and the required fee. This paper is in response to the Advisory Action, mailed September 26, 2002, and in further response to the Final Office Action, mailed April 11, 2002, ("the Office Action") in the above-identified application.

Further to the Office Action dated April 11, 2002, please amend the application as follows.

In the Claims:

~~Cancel~~ claims 27-57 without prejudice.

Add the new claims as follows:

58. A method of identifying a nucleic acid sequence, the method comprising:

- (a) providing one or more populations of nucleic acid molecules comprising at least one set of nucleic acid sequences;
- (b) digesting the one or more populations of nucleic acid molecules with one or more restriction enzymes to produce one or more subpopulations of nucleic acid molecules;
- (c) partitioning said subpopulations to produce one or more partitioned fractions;
- (d) constructing a library from each said partitioned fraction, wherein said library comprises specific nucleic acid fragments arrayed to generate mapping information of its original location in the partitioned fraction;
- (e) pooling said specific fragments from said library, wherein the pooling further provides for mapping a fragment's original location;

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